



# Recombinant Human NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 1 (NDUFA1), partial

<b>Product Code</b>	CSB-EP015618HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O15239
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	RFTNGGKEKRVAHFGYHWSLMERDRRISGVDRYYVSKGLENID
<b>Source</b>	E.coli
<b>Target Names</b>	NDUFA1
<b>Protein Names</b>	Recommended name: NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 1 Alternative name(s): Complex I-MWFE Short name= CI-MWFE NADH-ubiquinone oxidoreductase MWFE subunit
<b>Expression Region</b>	28-70
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Partial
<b>Target Details</b>	The human NDUFA1 gene codes for an essential component of complex I of the respiratory chain, which transfers electrons from NADH to ubiquinone. It has been noted that the N-terminal hydrophobic domain has the potential to be folded into an alpha-helix spanning the inner mitochondrial membrane with a C-terminal hydrophilic domain interacting with globular subunits of complex I. The highly conserved two-domain structure suggests that this feature is critical for the protein function and might act as an anchor for the NADH:ubiquinone oxidoreductase complex at the inner mitochondrial membrane. However, the NDUFA1 peptide is one of about 31 components of the hydrophobic protein (HP) fraction of complex I which is involved in proton translocation. Thus the NDUFA1 peptide may also participate in that function.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.



Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.